

Ashen Gunaratne

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experience

Singlife

Technical Lead

Singapore, Singapore

April 2022 - Present

Mobile backend tech lead; Design, author, and review RESTful API specifications and moderate related infrastructure cohering to compliance and security statuses.

Anti-Corruption Layer AWS AWS CDK Jest Node.js Quantum Databases RESTful APIs Slack Bots TeamCity TypeScript

Railsbank

Associate Technical Lead

London, United Kingdom

December 2021 - March 2022

BaaS integrations tech lead; Plan, design, and oversee regulated provider infrastructure integrations conforming to compliance and security statutes.

AWS CucumberJS Elastic Stack (ELK) GitLab CI/CD GraphQL Jest Kubernetes mTLS Node.js OpenPGP RESTful APIs Slack Bots Terraform TypeScript

Railsbank

Engineer

London, United Kingdom

December 2020 - December 2021

BaaS integrations engineer; Design, author, and review regulated provider infrastructure integrations conforming to compliance and security statutes.

AWS CucumberJS Elastic Stack (ELK) GitLab CI/CD GraphQL Jest Kubernetes mTLS Node.js OpenPGP RESTful APIs Slack Bots Terraform TypeScript

Al Iman Schools

Educator

Colombo, Sri Lanka

October 2020 - December 2020

Educator for computer science; Responsible for designing, implementing, and delivering custom tailored curriculums for key stages three, four, and five with emphasis on art of programming and integrating computer science in the domain of other subjects.

AsciiDoc CSS HTML JavaScript Python PyUnit

British College of Applied Studies

Lecturer

Colombo, Sri Lanka

July 2018 - July 2019

Instructor for *Pearson BTEC HND* in Computing; Responsible for level 5 specialist units: *Computer Systems Architecture, Data Structures and Algorithms, Discrete Mathematics, Network Management, and Network Security.*

C Firewalls IDS/IPS Systems JavaScript Python

Exetel PTY Limited

Network Engineer

Sydney, Australia

October 2016 - February 2017

Govern, implement, and troubleshoot real-time traffic steering policies to ensure critical application delivery, value-added services, and user quality of experience driving profitability of key deliverables in the digital data & device space in terms of revenue, users, traffic across 30 Gb/s data link.

Firewalls IPv4 RADIUS Servers SNMP TCP/UDP VoIP

IKON Systems (Private) Limited*Chief Information Officer*

Colombo, Sri Lanka

January 2016 - October 2016

Direct and manage computing and information technology strategic plans, policies, programs, schedules, and responsible for advertising network's scalability, security, and capacity-planning.

AWS Systemd HAProxy

research interests

Cybersecurity, digital forensics, botnets, computer science education, distance learning, collaborative learning, computer-assisted instruction

*education***Harvard College***Bachelor of Liberal Arts (A.L.B.)*

Massachusetts, United States

June 2017 - September 2021

Computer Science; GPA 3.9 (as of May 2018)

Related studies in linear algebra, statistics and probability, and finance.

Stanford University*MOOC*

California, United States

October 2017 - November 2017

Studies in enterprise-level web application deployment with focus on security, reliability, scalability, and cross-browser support.

Harvard University*MOOC*

Massachusetts, United States

January 2015 - December 2015

Studies in computer science for real-world domains of biology, cryptography, finance, forensics, and gaming.

Université Catholique de Louvain*MOOC*

Charleroi, Belgium

January 2015 - November 2015

Studies in major programming concepts, techniques, and paradigms in a unified framework.

The University of British Columbia*MOOC*

Vancouver, Canada

January 2015 - October 2015

Studies in computation as a tool for systematic problem solving in non-computer-science disciplines.

Lakeland Inter-American School*Pearson Edexcel AS Level*

Colombo, Sri Lanka

June 2014 - July 2015

- Accounting A

Lakeland Inter-American School*Pearson Edexcel Ordinary Level*

Colombo, Sri Lanka

March 2011 - June 2014

- Mathematics A*
- Further Pure Mathematics A
- Accounting A
- Business Studies B
- Economics B
- English Language B

languages

C, C++, C#, CSS, DTD, HTML, Java, JavaScript, LISP, NesC, Objective-C, Pascal, Perl, PHP, Python, SQL, SVG, VBScript, XHTML, XML Schema, XPath, XQuery, XSLT, English, Japanese, Sinhala

*projects***Thin Client Infrastructure for Lab Environment**

Designed and soft-launched a tier-two compliant laboratory infrastructure comprising a total capacity of ~ten-hundred diskless nodes with a LWAPP powered wireless access network.

Distributed Management Implementation

Drafted a RPC-based policy synchronisation discharge for the multipoint bandwidth management system subsuming an aggregated link amplitude of 30 Gb/s.

On-Premises to Cloud Migration

Designed and overviewed the migration of an on-premises infrastructure for collection of massive datasets capable of 500M HTTP hits per day with peaks of 10K per second.

*honors and awards***HackerRank**

Gold Honours - Problem Solving

Gold honours, five-star proficiency rating, in the domains of algorithms and data structures.

HackerRank

Gold Honours - Python

Gold honours, five-star proficiency rating, in the domain of Python subsuming all language-supported paradigms.

HackerRank

Gold Honours - SQL

Gold honours, five-star proficiency rating, in the domains of SQL subsuming all language-supported paradigms.

*licenses & certifications***HashiCorp**

IaC Automation

HackerRank

Python

*academic service***freeCodeCamp**

Curriculum Contributor

February 2017 - Present

Authore guides and specimen solutions for freeCodeCamp certification program challenges on algorithm design.

edX

Content Support Associate

December 2016 - Present

Validate and alter qualitative attributes of uploaded course materials to meet edX guidelines.

*community service***United Nations**

Volunteer Task Force

January 2015 - Present